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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06 **Date: 09/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /05

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	02/07/2018	09/07/2018	149.47 X 151.04 X 149.96	22576	8.127	409.8	18.2	18.4
2	RMC	M20	02/07/2018	09/07/2018	150.33 X 151.71 X 149.79	22806	8.310	424.5	18.6	
3	RMC	M20	02/07/2018	09/07/2018	151.58 X 150.74 X 150.17	22849	8.268	421.1	18.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06 **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /06

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	02/07/2018	30/07/2018	149.50 X 150.03 X 149.73	22430	8.285	530.7	23.7	23.1
2	RMC	M20	02/07/2018	30/07/2018	149.33 X 151.72 X 151.39	22657	8.481	500.7	22.1	
3	RMC	M20	02/07/2018	30/07/2018	151.74 X 150.54 X 149.10	22843	8.096	540.5	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06

Date: 09/07/2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	02/07/2018	09/07/2018	149.77 X 151.80 X 150.56	22734	8.584	411.0	18.1	18.1
2	RMC	M20	02/07/2018	09/07/2018	150.33 X 150.12 X 149.05	22567	8.135	413.4	18.3	
3	RMC	M20	02/07/2018	09/07/2018	151.63 X 151.05 X 150.92	22905	8.291	413.2	18.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06 **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /04

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	02/07/2018	30/07/2018	151.96 X 149.25 X 149.20	22680	8.325	540.2	23.8	23.3
2	RMC	M20	02/07/2018	30/07/2018	150.33 X 149.99 X 151.29	22548	8.463	508.9	22.6	
3	RMC	M20	02/07/2018	30/07/2018	151.90 X 149.11 X 150.59	22650	8.288	530.1	23.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06

Date: 09/07/2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	02/07/2018	09/07/2018	150.42 X 151.33 X 149.80	22764	8.301	411.7	18.1	18.3
2	RMC	M20	02/07/2018	09/07/2018	150.85 X 150.00 X 149.78	22628	8.396	411.6	18.2	
3	RMC	M20	02/07/2018	09/07/2018	149.85 X 150.51 X 151.39	22554	7.955	422.1	18.7	

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R. Karthik

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-03-06 **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-06 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	02/07/2018	30/07/2018	151.97 X 151.96 X 149.13	23093	8.222	546.1	23.6	23.3
2	RMC	M20	02/07/2018	30/07/2018	150.11 X 149.27 X 151.56	22406	8.191	503.0	22.4	
3	RMC	M20	02/07/2018	30/07/2018	149.58 X 149.98 X 149.63	22433	8.535	536.6	23.9	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-14** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/000008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-14 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	573	573	11.5	88.5	90-100
3	10 mm	2337	2910	58.2	41.8	25-55
4	4.75 mm	1736	4646	92.9	7.1	0-10
5	Pan	354	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-25-14** **Date: 28-06-2018**

Sample ID No : 2018-06-25-14 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-06-25-14

Date: 28-06-2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000008/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-2018

Sample ID No : 2018-06-25-14 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-06-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	133	133	13.3	86.7	90-100	90-100	90-100	95-100
3	2.36 mm	189	322	32.2	67.8	60-95	75-100	85-100	95-100
4	1.18 mm	100	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	180	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	197	799	79.9	20.1	5-20	8-30	12-40	15-50
7	150 micron	104	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-14** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-14 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	280	280	1.9	98.1	90-100
3	20 mm	5289	5569	37.1	62.9	30-70
4	10 mm	4700	10269	68.5	31.5	10-35
5	4.75 mm	4190	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-25-14** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-14 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-06-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time (minutes)	185 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-25-14** **Date: 24-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000008/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-14 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	29.5 N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0 N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5 N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

A.E.E

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-07-05-09**	**Date: 06-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Site preparation for indira canteen in Raithara santhe of Ward No-01 in Yelahanka Sub Division.	
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/000008/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-07-2018	
Sample ID No	:	2018-07-05-09/01	
Type of Mix	:	GSB (Granular Sub Base)	
Date of test	:	05-07-2018	
Oven Dry Weight	:	10000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	1300	1300	13.0	87.0	80-100
26.5	2300	3600	36.0	64.0	55-90
9.5	500	4100	41.0	59.0	35-65
4.75	2900	7000	70.0	30.0	25-55
2.36	700	7700	77.0	23.0	20-40
0.425	1000	8700	87.0	13.0	10-25
0.075	900	9600	96.0	4.0	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.70%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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End of Report

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